

IN THE CLAIMS

Please cancel Claims 1-66.

New claims 67-76 are presented as follows:

B 67. (New) A cardiac stimulation device comprising:
a first pair of electrodes configured for placement internally in a patient and in
operable association with the patient's heart;
a current source operably associated with the first pair of electrodes and
configured to produce a current therebetween;
a second pair of electrodes configured for placement internally in a patient and in
operable association with the patient's heart, at least one of the electrodes of the
second pair of electrodes being configured for placement in association with the left
side of the patient's heart;
a voltage measuring circuit operably associated with the second pair of
electrodes and configured to measure a voltage therebetween responsive to the current
produced by the current source;
an impedance measuring circuit configured for measuring impedance as a
function of the current produced by the current source and the voltage measured by the
voltage measuring circuit; and
a stimulation circuit associated with the impedance measuring circuit and
configured to stimulate the patient's heart as a function of the measured impedance.

68. (New) The cardiac stimulation device of claim 67, wherein the at least one
electrode of the second pair of electrodes comprises an electrode associated with the
left ventricle.

69. (New) The cardiac stimulation device of claim 67, wherein the at least one electrode of the second pair of electrodes comprises an electrode associated with the left atrium.

70. (New) The cardiac stimulation device of claim 67, wherein electrodes of the second pair of electrodes each comprise a left side heart electrode.

71. (New) The cardiac stimulation device of claim 70, wherein one of the left side heart electrodes comprises an electrode associated with the left atrium, and the other of the left side heart electrodes comprises an electrode associated with the left ventricle.

72. (New) The cardiac stimulation device of claim 70, wherein each of the electrodes of the second pair are associated with the left atrium.

73. (New) The cardiac stimulation device of claim 70, wherein each of the electrodes of the second pair are associated with the left ventricle.

74. (New) The cardiac stimulation device of claim 67, wherein the first and second pair of electrodes have no electrodes in common.

75. (New) The cardiac stimulation device of claim 67, wherein the first and second pair of electrodes share at least one common electrode.

76. (New) The cardiac stimulation device of claim 67, wherein the device comprises an implantable device.